



Riding the Wave of Top Performing Funds using F13 Filings

*An Analysis by Gerardo Ballesteros, Elijah Levine,
and Mateusz Pasynkiewicz*



Driving Question(s)

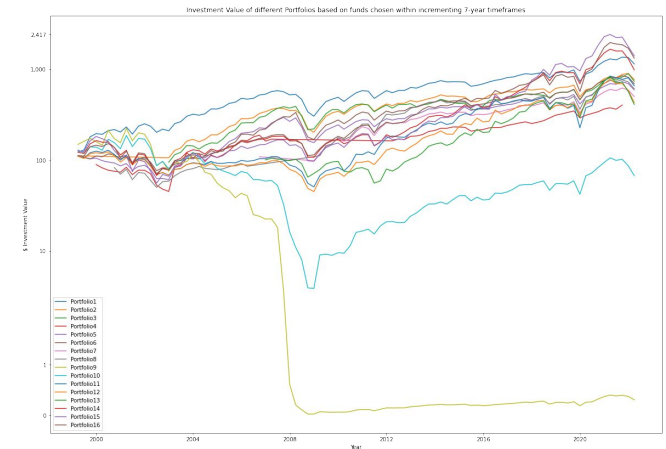
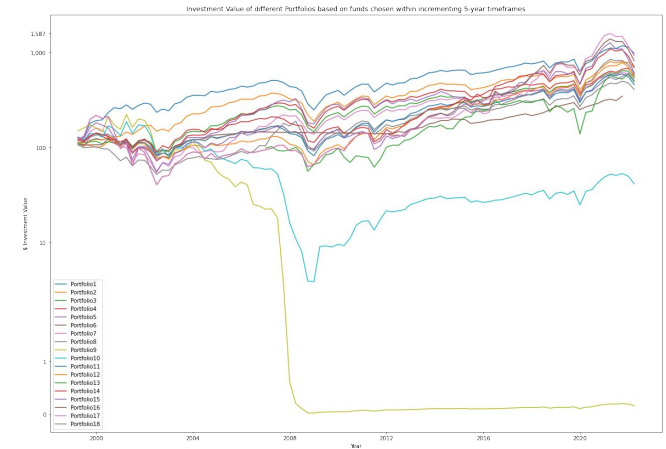
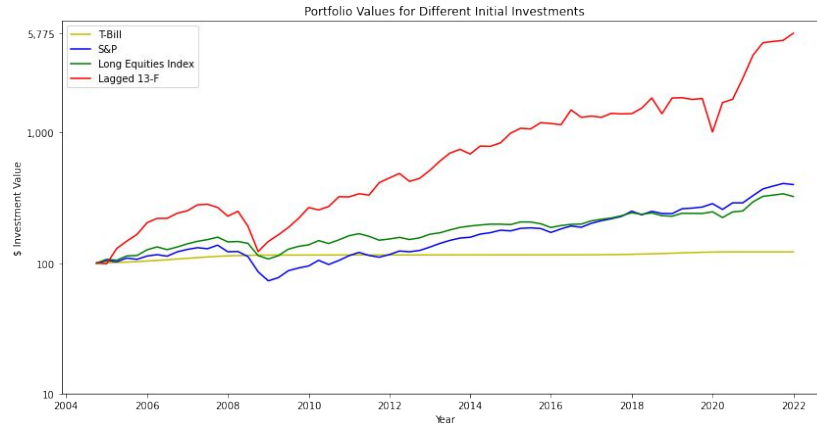
1. *Can a retail investor replicate the returns of top performing funds over the long run by mimicking their holdings as reported on their quarterly 13F filings?*
 - a. *In other words, what returns can be achieved by a retailer investor when copying positions found within the **lagging, SEC-required, 13F report**.*

2. *If a retail investor were able to successfully mimic the quarterly reported holdings of top performing, long term value / growth funds, could they also outperform the market?*
 - a. *Does this **lag** make a difference?*



Key Results

1. Key Portfolio returns exceed comparable investment strategies
2. Returns from portfolios based on best performing entities within given x-year periods still outperform comparables
 - a. These returns control for overfitting by selecting best performing funds over a given period and then testing it by calculating returns over the entire available investment horizon



Key Results

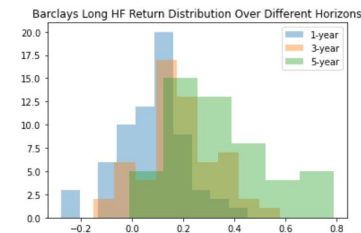
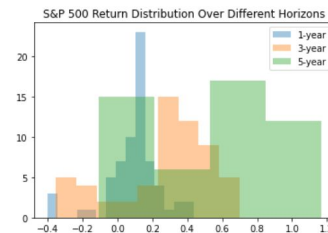
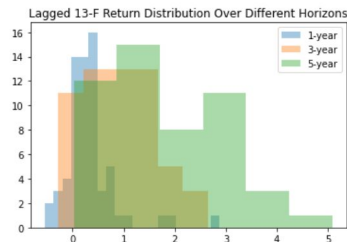
1. *The 13-F portfolio did perform worse than the S&P 500 when it came to managing risk (higher VaRs and negative expected loss), while the Long Bias performed the best.*

2. *We did calculate statistically significant alpha and low market beta in our CAPM and Fama-French regressions, but would take those results with a grain of salt (low r2).*

3. *Other interesting observations:*

a. *Distribution symmetry around 15-25% returns across time horizons for the Long Bias index.*

b. *SMB and HML factors being potentially indicative of the types of positions top performing funds take.*



Loss	S&P 500	Barclays Long Bias	Lagged 13F
1 Year	16.67%	25.76%	16.67%
3 Year	18.97%	10.34%	13.79%
5 Year	18%	2%	0%

Loss Sizing	S&P 500	Barclays Long Bias	Lagged 13F
1 Year	-15.40%	-8.25%	-21.83%
3 Year	-21.60%	-7.11%	-17.54%
5 Year	-7.52%	-1.12%	nan%

>100% Gains	S&P 500	Barclays Long Bias	Lagged 13F
1 Year	0%	0%	1.52%
3 Year	0%	0%	8.62%
5 Year	0%	0%	42%

VaR	S&P 500	Barclays Long Bias	Lagged 13F
1 Year	-22.08%	-9.79%	-34.10%
3 Year	-24.81%	-4.64%	-24.46%
5 Year	-9.04%	7.29%	50.79%

Excess Returns

13F Lagged: Mean = 7.1850%; SD = 17.1626%

Long Bias Index: Mean = 1.5876%; SD = 5.6069%

Market: Mean = 2.5455%; SD = 6.9530%

13F vs Long Bias Index Corr = 0.2446

13F vs Stock Market Corr = 0.2100

Sharpe ratios relative to the risk free rate

S&P 500: 1.04

Lagged 13F: 1.45

Barclays Long Bias: 0.98

Main Takeaways

1. Key Findings

- a. *One can successfully copy hedge fund returns in the long run by buying what is reported on their 13Fs (with some caveats)*
- b. *Identifying top performing funds (and which funds will continue to be top performing in the future) is very difficult*
- c. *If one can identify a top performing fund and start to buy what they report in their 13F, over time, one can successfully “mimic” their returns and therefore beat the market*

2. Key Recommendations

- a. *Identify top funds*
- b. *Invest for the long term*
- c. *Always continue learning and iterating*

